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A. Atli, M. Abon, P. Beccat, J.C. Bertolini and B. Tardy, Carbon monoxide adsorption on a $Pt_{80}Fe_{20}$(111) single-crystal alloy 302 (1994) 121

M. Nooney, V. Liberman, M. Xu, A. Ludviksson and R.M. Martin, Reaction of HCl with the GaAs(100) surface 302 (1994) 192

Electron microscopy

L. Wang, J. Liu and J.M. Cowley, Studies of single crystal TiO_2(001) and (100) surfaces by reflection high energy electron diffraction and reflection electron microscopy 302 (1994) 141

W.-C. Cheng and P. Wynblatt, Coupled compositional and roughening phase transitions at the surface of a Pb–Bi–Ni alloy 302 (1994) 185

Electron scattering

S.J. Splinter, N.S. McIntyre and G. Palumbo, Influence of Ar^+ ion bombardment on the initial interaction of water vapour with polycrystalline magnesium surfaces 302 (1994) 93

Electron spin resonance

S.N. Molotkov, Theory of electron-spin resonance topography of surfaces by the scanning tunneling microscope 302 (1994) 235

Electron stimulated desorption

Q. Gao, Z. Dohnalek, C.C. Cheng, W.J. Choyke and J.T. Yates, Jr., The adsorption and surface reaction of $SiCl_4$ on Si(100)-(2 × 1) 302 (1994) 1

Epitaxy

K.R. Roos and M.C. Tringides, Low-temperature, flux-independent epitaxy in Ag/Si(111) 302 (1994) 37

Gallium arsenide

R. Maboudian, V. Bressler-Hill, K. Pond, X.-S. Wang, P.M. Petroff and W.H. Weinberg, Effect of growth rate on the surface morphology of MBE-grown GaAs(001)-(2 × 4) 302 (1994) L269

M. Nooney, V. Liberman, M. Xu, A. Ludviksson and R.M. Martin, Reaction of HCl with the GaAs(100) surface 302 (1994) 192

Gold

G.J. Edens, X. Gao, M.J. Weaver, N.M. Markovic and P.N. Ross, Influence of adsorbed hydroxyl and carbon monoxide on potential-induced reconstruction of Au(100) as examined by scanning tunneling microscopy 302 (1994) L275

J.V. Barth, R.J. Behm and G. Ertl, Mesoscopic structural transformations of the Au(111) surface induced by alkali metal adsorption 302 (1994) L319

Graphite

J.V. Barth, R. Schuster, R.J. Behm and G. Ertl, K-induced restructuring of Au(001) observed by scanning tunneling microscopy 302 (1994) 158

Halogens

K. Sekar, G. Kuri, D.P. Mahapatra, B.N. Dev, J.V. Ramana, S. Kumar and V.S. Raju, X-ray photoelectron spectroscopic study of Si(111) and Si(100) surfaces with chemically adsorbed bromine 302 (1994) 25

Hydrogen
A.A. Saranin, E.A. Khramtsova and V.G. Lifshits, Interaction of the atomic hydrogen with Si(111)$\sqrt{3} \times \sqrt{3}$-Al surface: LEED and AES results 302 (1994) 57
P.J. Feibelman, J.E. Houston, H.L. Davis and D.G. O'Neill, Relaxation of the clean, Cu- and H-covered Ru(0001) surface 302 (1994) 81
Y.-F. Wang and R. Pollard, A method for predicting the adsorption energetics of diatomic molecules on metal surfaces 302 (1994) 223
Z. Hurych, P. Soukiassian, S. Kapoor, P.S. Mangat, S.T. Kim, J. Peng and E. Bourdié, Sodium-induced H^+ ion resonance on silicon surfaces 302 (1994) L293
S.W. Rick and J.D. Doll, Vibrational states of the hydrogen isotopes on Pd(111) 302 (1994) L305
M.U. Kislyuk, Model of activated chemisorption and its application 302 (1994) 395

Infrared spectroscopy
P. Jakob, Y.J. Chabal, K. Kuhnke and S.B. Christman, Monohydride structures on chemically prepared silicon surfaces 302 (1994) 49

Inorganic compounds
Q. Gao, Z. Dohnalek, C.C. Cheng, W.J. Choyke and J.T. Yates, Jr., The adsorption and surface reaction of $SiCl_4$ on Si(100)-(2 × 1) 302 (1994) 1
M. Nooney, V. Liberman, M. Xu, A. Ludviksson and R.M. Martin, Reaction of HCl with the GaAs(100) surface 302 (1994) 192

Ion bombardment
J.C. Girard, Y. Samson, S. Gauthier, S. Rousset and J. Klein, STM study of the nucleation and annealing of ion bombardment induced defects on Cu(100) 302 (1994) 73
S.J. Splinter, N.S. McIntyre and G. Palumbo, Influence of Ar^+ ion bombardment on the initial interaction of water vapour with polycrystalline magnesium surfaces 302 (1994) 93
H.J. Kang, R.H. Roberts, S. He, D.J. O'Connor and R.J. MacDonald, Surface composition changes of Ni–Zr alloy under Ar^+ ion bombardment by ISS, AES and XPS 302 (1994) 363

Ion scattering
R.M. Charatan, S.J. Anz, A.M. Russell, R.S. Williams and S. Chaudhury, Path-dependent neutralization of Ne^+ and Na^+ scattered from Ag(001) 302 (1994) 205
J.B. Zhou, H.C. Lu, T. Gustafsson and P. Häberle, Surface structure of MgO(001): a medium energy ion scattering study 302 (1994) 350
H.J. Kang, R.H. Roberts, S. He, D.J. O'Connor and R.J. MacDonald, Surface composition changes of Ni–Zr alloy under Ar^+ ion bombardment by ISS, AES and XPS 302 (1994) 363

Iron
T.L. Jones and D. Venus, Structural and magnetic characterization of thin iron films on a tungsten (001) substrate 302 (1994) 126

Iron oxide
A. Barbieri, W. Weiss, M.A. Van Hove and G.A. Somorjai, Magnetite Fe_3O_4(111): surface structure by LEED crystallography and energetics 302 (1994) 259

Low energy electron diffraction
A.A. Saranin, E.A. Khramtsova and V.G. Lifshits, Interaction of the atomic hydrogen with Si(111)$\sqrt{3} \times \sqrt{3}$-Al surface: LEED and AES results 302 (1994) 57

P.J. Feibelman, J.E. Houston, H.L. Davis and D.G. O'Neill, Relaxation of the clean, Cu- and H-covered Ru(0001) surface 302 (1994) 81
T.L. Jones and D. Venus, Structural and magnetic characterization of thin iron films on a tungsten (001) substrate 302 (1994) 126
J. Liu and J.M. Blakely, Surface phases of the S + O binary system coadsorbed on Ni(111) 302 (1994) 171
A. Barbieri, W. Weiss, M.A. Van Hove and G.A. Somorjai, Magnetite Fe_3O_4(111): surface structure by LEED crystallography and energetics 302 (1994) 259

Magnesium
S.J. Splinter, N.S. McIntyre and G. Palumbo, Influence of Ar^+ ion bombardment on the initial interaction of water vapour with polycrystalline magnesium surfaces 302 (1994) 93
A.F. Wright, P.J. Feibelman and S.R. Atlas, First-principles calculation of the Mg(0001) surface relaxation 302 (1994) 215

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J.B. Zhou, H.C. Lu, T. Gustafsson and P. Häberle, Surface structure of MgO(001): a medium energy ion scattering study 302 (1994) 350

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T.L. Jones and D. Venus, Structural and magnetic characterization of thin iron films on a tungsten (001) substrate 302 (1994) 126

Molecular beam epitaxy
R. Maboudian, V. Bressler-Hill, K. Pond, X.-S. Wang, P.M. Petroff and W.H. Weinberg, Effect of growth rate on the surface morphology of MBE-grown GaAs(001)-(2 × 4) 302 (1994) L269

Nickel
B. Hernnäs, M. Karolewski, H. Tillborg, A. Nilsson and N. Mårtensson, On the growth of Ni on Cu(100) 302 (1994) 64
J. Liu and J.M. Blakely, Surface phases of the S + O binary system coadsorbed on Ni(111) 302 (1994) 171

Nitric oxide
A. Gross and W. Brenig, Vibrational excitation in the scattering from an almost rigid surface: NO/diamond(110) 302 (1994) 403

Nitrogen
Y.-F. Wang and R. Pollard, A method for predicting the adsorption energetics of diatomic molecules on metal surfaces 302 (1994) 223
O. Ellegaard, J. Schou, B. Stenum, H. Sørensen, R. Pedrys, B. Warczak, D.J. Oostra, A. Haring and A.E. de Vries, Sputtering of solid nitrogen and oxygen by keV hydrogen ions 302 (1994) 371
M.U. Kislyuk, Model of activated chemisorption and its application 302 (1994) 395

Oxygen
A.J. Muscat, A. Rjeb and D. Roy, Oxidation of Si(111)7 × 7 using alkali metal atoms: evidence for local promotion mechanisms 302 (1994) L256

K. Franke, J. Besold, W. Haessler and C. Seegebarth, Modification and detection of domains on ferroelectric PZT films by scanning force microscopy 302 (1994) L283
F.J. Esposto, C.-S. Zhang, P.R. Norton and R.S. Timsit, Segregation of Mg to the surface of an Al–Mg single crystal alloy and its influence on the initial oxidation at room temperature 302 (1994) 109
J. Liu and J.M. Blakely, Surface phases of the S + O binary system coadsorbed on Ni(111) 302 (1994) 171
Y.-F. Wang and R. Pollard, A method for predicting the adsorption energetics of diatomic molecules on metal surfaces 302 (1994) 223
O. Ellegaard, J. Schou, B. Stenum, H. Sørensen, R. Pedrys, B. Warczak, D.J. Oostra, A. Haring and A.E. de Vries, Sputtering of solid nitrogen and oxygen by keV hydrogen ions 302 (1994) 371

Palladium
G. Bilalbegović and A.E. DePristo, Atom deposition on surface clusters: thin film growth on Pd(111) 302 (1994) L299
S.W. Rick and J.D. Doll, Vibrational states of the hydrogen isotopes on Pd(111) 302 (1994) L305

Photodesorption
Z. Hurych, P. Soukiassian, S. Kapoor, P.S. Mangat, S.T. Kim, J. Peng and E. Bourdié, Sodium-induced H^+ ion resonance on silicon surfaces 302 (1994) L293

Photoelectron spectroscopy
K. Sekar, G. Kuri, D.P. Mahapatra, B.N. Dev, J.V. Ramana, S. Kumar and V.S. Raju, X-ray photoelectron spectroscopic study of Si(111) and Si(100) surfaces with chemically adsorbed bromine 302 (1994) 25
B. Hernnäs, M. Karolewski, H. Tillborg, A. Nilsson and N. Mårtensson, On the growth of Ni on Cu(100) 302 (1994) 64
P. Sandl and E. Bertel, Surface states, local bonding, and surface reconstruction: Na on Cu(110) 302 (1994) L325
A.P. Kaduwela, M.A. Van Hove and C.S. Fadley, Linear photoelectron diffraction: application of a rapid approximation for surface structural studies 302 (1994) L336
A. Liebsch, G.V. Benemanskaya and M.N. Lapushkin, Near-threshold enhancement in photoemission from alkali metal overlayers 302 (1994) 303
T.D. Durbin, J.R. Lince, S.V. Didziulis, D.K. Shuh and J.A. Yarmoff, Soft X-ray photoelectron spectroscopy study of the interaction of Cr with MoS_2(0001) 302 (1994) 314
M.B. Hugenschmidt, L. Gamble and C.T. Campbell, The interaction of H_2O with a TiO_2(110) surface 302 (1994) 329
H.J. Kang, R.H. Roberts, S. He, D.J. O'Connor and R.J. MacDonald, Surface composition changes of Ni–Zr alloy under Ar^+ ion bombardment by ISS, AES and XPS 302 (1994) 363

Platinum
X.-C. Guo and D.A. King, Measuring the absolute sticking probability at desorption temperatures 302 (1994) L251

Rhodium
G. Bilalbegović and A.E. DePristo, Atom deposition on surface clusters: thin film growth on Pd(111) 302 (1994) L299

Ruthenium
P.J. Feibelman, J.E. Houston, H.L. Davis and D.G. O'Neill, Relaxation of the clean, Cu- and H-covered Ru(0001) surface 302 (1994) 81
E.D. Westre, D.E. Brown, J. Kutzner and S.M. George, Anisotropy and coverage dependence of CO surface diffusion on Ru(S)-[15(001) × 2(100)] 302 (1994) 280

Secondary ion mass spectroscopy
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Semiconductors
H. Gnaser and H. Oechsner, The influence of polarizability on the emission of sputtered molecular ions 302 (1994) L289

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J. Schmidt, Ch. Stuhlmann and H. Ibach, Adsorption and decomposition of diethylsilane and diethyldichlorosilane on Si(100)(2 × 1) and Si(111)(1 × 1) 302 (1994) 10

Silicon
A.J. Muscat, A. Rjeb and D. Roy, Oxidation of Si(111)7 × 7 using alkali metal atoms: evidence for local promotion mechanisms 302 (1994) L256
Q. Gao, Z. Dohnalek, C.C. Cheng, W.J. Choyke and J.T. Yates, Jr., The adsorption and surface reaction of $SiCl_4$ on Si(100)-(2 × 1) 302 (1994) 1
J. Schmidt, Ch. Stuhlmann and H. Ibach, Adsorption and decomposition of diethylsilane and diethyldichlorosilane on Si(100)(2 × 1) and Si(111)(1 × 1) 302 (1994) 10
K. Sekar, G. Kuri, D.P. Mahapatra, B.N. Dev, J.V. Ramana, S. Kumar and V.S. Raju, X-ray photoelectron spectroscopic study of Si(111) and Si(100) surfaces with chemically adsorbed bromine 302 (1994) 25
K.R. Roos and M.C. Tringides, Low-temperature, flux-independent epitaxy in Ag/Si(111) 302 (1994) 37
P. Jakob, Y.J. Chabal, K. Kuhnke and S.B. Christman, Monohydride structures on chemically prepared silicon surfaces 302 (1994) 49
A.A. Saranin, E.A. Khramtsova and V.G. Lifshits, Interaction of the atomic hydrogen with Si(111)$\sqrt{3} \times \sqrt{3}$-Al surface: LEED and AES results 302 (1994) 57
Z. Hurych, P. Soukiassian, S. Kapoor, P.S. Mangat, S.T. Kim, J. Peng and E. Bourdié, Sodium-induced H^+ ion resonance on silicon surfaces 302 (1994) L293
H. Itoh, J. Itoh, A. Schmid and T. Ichinokawa, Temperature-depending growth and surface structures of low-coverage Al phases on Si(100) observed by scanning tunneling microscopy 302 (1994) 295

Silver
K.R. Roos and M.C. Tringides, Low-temperature, flux-independent epitaxy in Ag/Si(111) 302 (1994) 37
R.M. Charatan, S.J. Anz, A.M. Russell, R.S. Williams and S. Chaudhury, Path–dependent neutralization of Ne^+ and Na^+ scattered from Ag(001) 302 (1994) 205

Solid–electrolyte interface
G.J. Edens, X. Gao, M.J. Weaver, N.M. Markovic and P.N. Ross, Influence of adsorbed hydroxyl and carbon monoxide on potential-induced reconstruction of Au(100) as examined by scanning tunneling microscopy 302 (1994) L275

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H. Gnaser and H. Oechsner, The influence of polarizability on the emission of sputtered molecular ions 302 (1994) L289
O. Ellegaard, J. Schou, B. Stenum, H. Sørensen, R. Pedrys, B. Warczak, D.J. Oostra, A. Haring and A.E. de Vries, Sputtering of solid nitrogen and oxygen by keV hydrogen ions 302 (1994) 371

Sulphides
T.D. Durbin, J.R. Lince, S.V. Didziulis, D.K. Shuh and J.A. Yarmoff, Soft X-ray photoelectron spectroscopy study of the interaction of Cr with MoS_2(0001) 302 (1994) 314

Sulphur
J. Liu and J.M. Blakely, Surface phases of the S + O binary system coadsorbed on Ni(111) 302 (1994) 171
E.D. Westre, D.E. Brown, J. Kutzner and S.M. George, Anisotropy and coverage dependence of CO surface diffusion on Ru(S)-[15(001) × 2(100)] 302 (1994) 280

Surface composition
W.-C. Cheng and P. Wynblatt, Observations of a two-dimensional compositional phase transition at the surface of a polycrystalline Pb–Bi–Ni alloy 302 (1994) 179
H.J. Kang, R.H. Roberts, S. He, D.J. O'Connor and R.J. MacDonald, Surface composition changes of Ni–Zr alloy under Ar^+ ion bombardment by ISS, AES and XPS 302 (1994) 363

Surface defects
J.C. Girard, Y. Samson, S. Gauthier, S. Rousset and J. Klein, STM study of the nucleation and annealing of ion bombardment induced defects on Cu(100) 302 (1994) 73
B. Joós, Q. Ren and M.S. Duesbery, Influence of the interatomic potential on the structure of dislocations in a monolayer 302 (1994) 385

Surface diffusion
G. Bilalbegović and A.E. DePristo, Atom deposition on surface clusters: thin film growth on Pd(111) 302 (1994) L299
E.D. Westre, D.E. Brown, J. Kutzner and S.M. George, Anisotropy and coverage dependence of CO surface diffusion on Ru(S)-[15(001) × 2(100)] 302 (1994) 280

Surface melting
A. Alavi and S. Chandavarkar, The effect of molecular shape anisotropy on surface melting 302 (1994) L331

Surface phonons and adsorbate vibrations
S.W. Rick and J.D. Doll, Vibrational states of the hydrogen isotopes on Pd(111) 302 (1994) L305

Surface segregation
F.J. Esposto, C.-S. Zhang, P.R. Norton and R.S. Timsit, Segregation of Mg to the surface of an Al–Mg single crystal alloy and its influence on the initial oxidation at room temperature 302 (1994) 109
W.-C. Cheng and P. Wynblatt, Coupled compositional and roughening phase transitions at the surface of a Pb–Bi–Ni alloy 302 (1994) 185

Surface states and interface states
P. Sandl and E. Bertel, Surface states, local bonding, and surface reconstruction: Na on Cu(110) 302 (1994) L325

Surface structure, see also Low energy electron diffraction
M. Sander and T. Engel, Atomic level structure of TiO_2(110) as a function of surface oxygen coverage 302 (1994) L263
P.J. Feibelman, J.E. Houston, H.L. Davis and D.G. O'Neill, Relaxation of the clean, Cu- and H-covered Ru(0001) surface 302 (1994) 81
J.V. Barth, R. Schuster, R.J. Behm and G. Ertl, K-induced restructuring of Au(001) observed by scanning tunneling microscopy 302 (1994) 158
A.F. Wright, P.J. Feibelman and S.R. Atlas, First-principles calculation of the Mg(0001) surface relaxation 302 (1994) 215
A. Barbieri, W. Weiss, M.A. Van Hove and G.A. Somorjai, Magnetite Fe_3O_4(111): surface structure by LEED crystallography and energetics 302 (1994) 259
H. Itoh, J. Itoh, A. Schmid and T. Ichinokawa, Temperature-depending growth and surface structures of low-coverage Al phases on Si(100) observed by scanning tunneling microscopy 302 (1994) 295
J.B. Zhou, H.C. Lu, T. Gustafsson and P. Häberle, Surface structure of MgO(001): a medium energy ion scattering study 302 (1994) 350

Surface thermodynamics
J. Liu and J.M. Blakely, Surface phases of the S + O binary system coadsorbed on Ni(111) 302 (1994) 171
W.-C. Cheng and P. Wynblatt, Observations of a two-dimensional compositional phase transition at the surface of a polycrystalline Pb–Bi–Ni alloy 302 (1994) 179
W.-C. Cheng and P. Wynblatt, Coupled compositional and roughening phase transitions at the surface of a Pb–Bi–Ni alloy 302 (1994) 185

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A.J. Muscat, A. Rjeb and D. Roy, Oxidation of Si(111)7×7 using alkali metal atoms: evidence for local promotion mechanisms 302 (1994) L256
Q. Gao, Z. Dohnalek, C.C. Cheng, W.J. Choyke and J.T. Yates, Jr., The adsorption and surface reaction of $SiCl_4$ on Si(100)-(2×1) 302 (1994) 1
A.A. Saranin, E.A. Khramtsova and V.G. Lifshits, Interaction of the atomic hydrogen with Si(111)$\sqrt{3} \times \sqrt{3}$-Al surface: LEED and AES results 302 (1994) 57
F.J. Esposto, C.-S. Zhang, P.R. Norton and R.S. Timsit, Segregation of Mg to the surface of an Al–Mg single crystal alloy and its influence on the initial oxidation at room temperature 302 (1994) 109
A. Atli, M. Abon, P. Beccat, J.C. Bertolini and B. Tardy, Carbon monoxide adsorption on a $Pt_{80}Fe_{20}$(111) single-crystal alloy 302 (1994) 121
M. Nooney, V. Liberman, M. Xu, A. Ludviksson and R.M. Martin, Reaction of HCl with the GaAs(100) surface 302 (1994) 192
M.B. Hugenschmidt, L. Gamble and C.T. Campbell, The interaction of H_2O with a TiO_2(110) surface 302 (1994) 329

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M. Sander and T. Engel, Atomic level structure of TiO_2(110) as a function of surface oxygen coverage 302 (1994) L263
L. Wang, J. Liu and J.M. Cowley, Studies of single crystal TiO_2(001) and (100) surfaces by reflection high energy electron diffraction and reflection electron microscopy 302 (1994) 141

M.B. Hugenschmidt, L. Gamble and C.T. Campbell, The interaction of H_2O with a $TiO_2(110)$ surface 302 (1994) 329
D.G. Wiesler, M.F. Toney, O.R. Melroy, C.S. McMillan and W.H. Smyrl, X-ray diffraction from anodic TiO_2 films: in situ and ex situ comparison of the Ti(0001) face 302 (1994) 341

Tungsten
T.L. Jones and D. Venus, Structural and magnetic characterization of thin iron films on a tungsten (001) substrate 302 (1994) 126
M.U. Kislyuk, Model of activated chemisorption and its application 302 (1994) 395

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M. Sander and T. Engel, Atomic level structure of $TiO_2(110)$ as a function of surface oxygen coverage 302 (1994) L263
R. Maboudian, V. Bressler-Hill, K. Pond, X.-S. Wang, P.M. Petroff and W.H. Weinberg, Effect of growth rate on the surface morphology of MBE-grown GaAs(001)-(2×4) 302 (1994) L269
G.J. Edens, X. Gao, M.J. Weaver, N.M. Markovic and P.N. Ross, Influence of adsorbed hydroxyl and carbon monoxide on potential-induced reconstruction of Au(100) as examined by scanning tunneling microscopy 302 (1994) L275
J.C. Girard, Y. Samson, S. Gauthier, S. Rousset and J. Klein, STM study of the nucleation and annealing of ion bombardment induced defects on Cu(100) 302 (1994) 73
J.V. Barth, R. Schuster, R.J. Behm and G. Ertl, K-induced restructuring of Au(001) observed by scanning tunneling microscopy 302 (1994) 158
S.N. Molotkov, Theory of electron-spin resonance topography of surfaces by the scanning tunneling microscope 302 (1994) 235
J.V. Barth, R.J. Behm and G. Ertl, Mesoscopic structural transformations of the Au(111) surface induced by alkali metal adsorption 302 (1994) L319
H. Itoh, J. Itoh, A. Schmid and T. Ichinokawa, Temperature-depending growth and surface structures of low-coverage Al phases on Si(100) observed by scanning tunneling microscopy 302 (1994) 295

Water
S.J. Splinter, N.S. McIntyre and G. Palumbo, Influence of Ar^+ ion bombardment on the initial interaction of water vapour with polycrystalline magnesium surfaces 302 (1994) 93
M.B. Hugenschmidt, L. Gamble and C.T. Campbell, The interaction of H_2O with a $TiO_2(110)$ surface 302 (1994) 329

Work function
F.J. Esposto, C.-S. Zhang, P.R. Norton and R.S. Timsit, Segregation of Mg to the surface of an Al–Mg single crystal alloy and its influence on the initial oxidation at room temperature 302 (1994) 109
A. Atli, M. Abon, P. Beccat, J.C. Bertolini and B. Tardy, Carbon monoxide adsorption on a $Pt_{80}Fe_{20}(111)$ single-crystal alloy 302 (1994) 121
M.B. Hugenschmidt, L. Gamble and C.T. Campbell, The interaction of H_2O with a $TiO_2(110)$ surface 302 (1994) 329

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D.G. Wiesler, M.F. Toney, O.R. Melroy, C.S. McMillan and W.H. Smyrl, X-ray diffraction from anodic TiO_2 films: in situ and ex situ comparison of the Ti(0001) face 302 (1994) 341